

# Geosyntec<sup>®</sup>

consultants

## SPECIFICATION COVER SHEET

**Client:** Gowanus Canal Remedial  
Design Group

**Project:** Gowanus Canal – 4<sup>th</sup> Street  
Turning Basin Pilot Study –  
Dredging and Capping

**Project #:** HPH106A

**SPECIFICATION SECTION:** 31 10 00 **TITLE:** SITE PREPARATION

**SPECIFICATION PREPARED BY:**  
(Specification Preparer, SP)

Signature

Name Erik Miller

5/19/17

Date

**SCOPE AND FORMAT CHECKED  
BY:**  
(Scope and Format Checker, SFC)

Signature

Name Mark W. Schillinger

05/18/2017

Date

**DETAILED REQUIREMENTS  
CHECKED BY:**  
(Detailed Requirements Checker, DRC)

Signature

Name Darrell Nicholas

17 May 2017 JFB

Date

**APPROVED BY:**  
(Specification Approver, SA)

Signature

Name J.F. Beech

19 May 2017

Date

### Record of Revision (Number and initial all revisions)

Rev. No.	Reason	Date	By	Checked	Approval
0	TB4 Pilot Study Design – Issued for Bid	05/19/17	EM	MWS	JFB

**SECTION 31 10 00**

**SITE PREPARATION**

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## **SECTION 31 10 00**

### **SITE PREPARATION**

#### **PART 1 GENERAL**

##### **1.01 SUMMARY**

- A. This Section details site preparations to be conducted before Work begins.

##### **1.02 RELATED SECTIONS, PLANS, AND DOCUMENTS**

- A. Section 01 11 00 Summary of Work
- B. Section 01 33 00 Submittals
- C. Section 01 35 29 Health, Safety, and Emergency Response Requirements
- D. Section 01 41 00 Regulatory Requirements
- E. Section 01 51 00 Temporary Utilities
- F. Section 01 57 13 Temporary Erosion and Sediment Control
- G. Section 01 57 19 Temporary Environmental Controls
- H. Section 01 71 23 Site Survey and Grade Control
- I. Section 02 51 19 Dredged Sediment and Waste Management
- J. Section 31 23 00 Upland Excavation and Fill
- K. Section 35 20 23.13 Dredging and Dewatering
- L. Section 44 08 40 Dredge Water Treatment System Requirements
- M. Contract Documents

##### **1.03 REFERENCES**

- A. Rules of the City of New York (RCNY). “Title 34: Department of Transportation.” <<http://rules.cityofnewyork.us/codified-rules?agency=DOT>>.
- B. New York City Department of Transportation (NYC DOT) Street Works Manual. <<http://streetworksmannual.nyc/>>.

- C. American Society for Testing and Materials (ASTM) Standards (versions as of April 2017):
  - 1. ASTM D25 - Specification for Round Timber Piles.
- D. American Wood Preservers' Association (AWPA) Standards (versions as of April 2017):
  - 1. AWPA C3 - Piles - Preservative Treatment by Pressure Processes.
  - 2. AWPA C18 - Standard for Pressure Treated Material in Marine Construction.

#### **1.04 SUBMITTALS**

- A. The Contractor shall submit the following to the Owner's Representative in accordance with Section 01 33 00:
  - 1. Site Preparation Work Plan detailing the following:
    - a. Provision of 24-hour Site security, including maintenance of Site gate access control (i.e., staffing guard booths) throughout the Work. Provide a schedule with proposed staffing for the guard booths needed to maintain security at the Site.
    - b. Plans for installation, maintenance, and inspection of temporary fencing, erosion and sediment controls, and environmental controls prior to the start of earthwork, stockpiling, and equipment installation activities.
    - c. A Grading Plan describing proposed excavation and fill activities to be completed in accordance with Section 31 23 00. The Grading Plan shall include items needed for the Staging Site to facilitate road construction, storage of supplies and equipment, and installation of the dredge water treatment system (Section 44 08 40). The Contractor's Grading Plan shall promote positive drainage to mitigate ponded water.
    - d. Proposed means and methods if the Contractor proposes relocation of the dock from the current location.
    - e. Proposed plan for relocation of storage containers and site trailers, as needed, to facilitate installation of Contractor's equipment and supplies.
    - f. If the Contractor elects the option to construct a separate decontamination pad, as described in Section 01 57 19, the Contractor shall submit the design to the Owner's Representative for review and approval.
    - g. Proposed methods for controlling traffic. The Owner's Representative's will review the Traffic Plan and coordinate with applicable regulatory agencies

prior to approval. The traffic control plan shall show and describe the following:

- i. Proposed plan for closing Huntington Street in accordance with the requirements of this Section and Section 01 41 00, including:
  - Schedule for obtaining street closure permits;
  - Plan for reinstalling gate and fence using existing materials stored onsite;
  - Schedule for installing the 24-ft wide swing gate and fence; and
  - Temporary measures to control access during working hours on Huntington St. immediately south of the sliding gate and west of the 24-ft wide swing gate.
- ii. Vehicular traffic routing along local streets;
- iii. Any traffic blockage anticipated to be caused by the Work under this Contract;
- iv. Trucking plan for delivery of materials and removal of debris, sediment, and wash water if the plan differs from the Construction Drawings; and
- v. Construction parking plan for areas at the Site.
- h. Proposed Site Layout showing the proposed locations and approximate dimensions of the following Staging Site facilities.
  - i. Parking areas;
  - ii. Construction fencing;
  - iii. Drainage improvement areas;
  - iv. Personnel trailers/administrative areas;
  - v. Secondary containment structure placement areas;
  - vi. Material laydown and storage areas;
  - vii. Equipment staging and storage areas;
  - viii. Decontamination facilities;
  - ix. Roadways;



- x. Barge tie-up areas;
  - xi. Dock facilities for material and crew transfer;
  - xii. Waste management/sanitary facilities; and
  - xiii. Other temporary facilities proposed for installation at Staging Site.
2. Site surveys to be conducted in accordance with Section 01 71 23 and consisting of the following:
- a. Initial survey to: (i) verify existing topographic conditions for areas in which grading or earthwork activities shall occur; (ii) to verify the location of utilities planned to be used by the Contractor; and (iii) identification or confirmation of the location of utilities for areas where excavation activities are planned.
  - b. Final or as-built surveys for the following: (i) stockpiles; (ii) new, modified, or relocated utilities; (iii) new asphalt or concrete pads; (iv) treatment facilities; (v) new fencing and gates; and (vi) a revised topographic conditions map for areas where grading or earthwork activities occurred.
3. Photographic surveys documenting the conditions of the existing bulkheads along the Staging Site shall be performed at low tide. The survey will create a visual log of the entire length of bulkhead. One photographic survey, referred to as the Pre-Construction Staging Site Bulkhead Survey, shall be completed prior to the start of construction activities. One photographic survey, referred to as the Post-Construction Staging Site Bulkhead Survey, shall be completed at the end of construction activities.

## **1.05 HEALTH AND SAFETY REQUIREMENTS**

- A. The Contractor shall comply with environmental health and safety/training requirements in accordance with the approved Health and Safety Plan and Section 01 35 29.

## **PART 2 PRODUCTS**

### **2.01 MATERIALS**

- A. If the Contractor desires to relocate existing dock facilities (i.e., support platform, gangway, piles, and dock) and new materials are required, timber piles shall meet the requirements of ASTM D25. The wood material shall be treated with a preservative suitable for marine use that meets applicable environmental standards, including AWWA C3 and AWWA C18. The piles shall be a similar length and diameter as the piles presented on the Construction Drawings. Documentation of the length and diameter of replaced

piles shall be maintained by the Contractor. The Contractor shall be responsible for having the design for the relocation of the existing dock facilities signed and stamped by a Professional Engineer in the State of New York.

## **PART 3 EXECUTION**

### **3.01 GENERAL**

- A. Verify existing conditions as shown on the Construction Drawings prior to beginning Work in this Section.
- B. Perform site staging work within the Limits of Work presented on the Construction Drawings. The Contractor may use the area delineated as the Limit of Work by Others until upland remediation begins. Requirements associated with the Limits of Work by Others are presented on the Construction Drawings.
- C. Maintain site security and gate access in accordance with the Site Preparation Work Plan for the duration of the Work.
- D. Maintain site cleanliness in accordance with Section 02 51 19.
- E. Provide temporary utilities for the Work in accordance with Section 01 51 00.
- F. Install, maintain, and inspect erosion and sediment controls and environmental controls prior to beginning Work in: "in accordance with Section 01 57 13 and the Sediment and Erosion Control (S&EC) Plan (shown on the Construction Drawings and associated notes) and Section 01 57 19, respectively.
- G. Install, maintain, and inspect temporary fencing for the duration of the Work.
- H. Utilize water application methods to control on-site dust as described in Section 01 57 19 and Section 31 23 00.
- I. Perform excavation, fill, and road construction in accordance with Section 31 23 00.
- J. All vehicles hauling sediment or debris shall be decontaminated in accordance with Section 01 57 19 prior to leaving the site.
- K. If the Contractor chooses to relocate the dock as shown on the Construction Drawings from the current location, if any timber piles are damaged, the Contractor shall use new timber piles that meet the requirements listed in this Section. Debris and sediment within the vicinity of the dock shall be moved, as needed if the dock is relocated, to allow the dock to float at mean lower low water. The debris and sediment shall be managed in accordance with Section 02 51 19.

- L. The dock shall only be used for transfer of personnel and material loads less than 200 pounds.
- M. If Contractor chooses to relocate dock as shown on the Construction Drawings from the current location to in front of 459 Smith St., the Contractor shall coordinate the relocation with the Owner's Representative.
- N. If the Contractor chooses to relocate dock as shown on the Construction Drawings from the current location to in front of Huntington St., the Contractor shall coordinate with the Owner's Representative and must account for the street closure permit for Huntington St.
- O. If the Contractor chooses to relocate dock as shown on the Construction Drawings from the current location to in front of 230 Huntington St. (Block 477, Lot 8), the Contractor shall coordinate with the Owner's Representative and property owner of 230 Huntington St. The Contractor would be responsible for obtaining an access agreement with the property owner, if necessary.
- P. Coordinate the relocation of storage containers and wooden pad with the Owner's Representative, as needed, to facilitate installation of Contractor's equipment.
- Q. If necessary or desired, existing stickup wells within the footprint of the available work area (e.g. monitoring wells CGMW-35, and 36) shall be converted to flush-mount wells as presented on the Construction Drawings. The Contractor shall protect all existing monitoring wells from damage. Existing and proposed monitoring well and recovery well barriers and enclosures shall be maintained to protect the wells and not create new hazards (i.e. slips, trips, falls, and protrusions) to personnel onsite.
- R. Complete initial, final, as-built, and measurement and payment surveys in accordance with Section 01 71 23.
- S. Complete Pre-Construction and Post Construction Staging Site Bulkhead Surveys.

### **3.02 TRAFFIC CONTROL**

- A. The Contractor shall retain the responsibility for traffic operations. The Contractor shall cooperate with the Owner's Representative so that traffic flow is minimized by the execution of the Work under this Contract.
- B. The Contractor shall understand the special requirement of maintaining the facility in full operation concurrent with the construction activity, and shall provide continuous and safe access by the Owner's Representative to all areas of the Site not specifically designated for Work by the Contractor under this Contract. Work will be coordinated with other Contractors and the Owner's Representative as indicated in Section 01 11 00.

- C. Other than as shown on the approved traffic control plans, at no time shall the Contractor's operations interfere with the traffic flow of occupied areas of the Staging Site or neighborhood.
- D. The Contractor shall install temporary fencing and a gate on Huntington Street as shown on the Construction Drawings to control traffic and Site access. The Contractor may install additional traffic measures to control access immediately south of the sliding gate at the southern construction entrance and west of the Huntington St. gate during working hours. The Contractor shall comply with the regulatory requirements in Section 01 41 00.
- E. Upon completion of the Work, temporary traffic control items furnished by the Contractor shall remain the Contractor's property and shall be removed from the Site by the Contractor. Existing traffic control features furnished by the Owner, such as existing fencing and the Huntington St. gate and fence, shall remain and moved (if necessary) onto the Owner's property.

### **3.03 CONSTRUCTION PARKING**

- A. Construction parking shall be limited to the areas listed below. The Contractor shall be responsible for informing all workers of parking restrictions and removing any vehicle from areas designated as NO PARKING.
- B. Construction parking shall be limited to the following areas:
  - 1. Contractor's parking, laydown, and storage areas; and
  - 2. Legal parking areas on adjacent city streets.
- C. Construction parking shall not be allowed in the following areas:
  - 1. Adjacent city streets where parking is not allowed, such as bus loading zones, driveways, etc.; or
  - 2. On-site in non-parking areas.

### **3.04 STREET CLOSURE**

- A. A portion of Huntington Street indicated on the Construction Drawings shall be closed for the duration of the Work to provide parking, to provide material and equipment storage, and to protect pedestrians. A chain-link fence and swing gate are stored at the Site and shall be installed across Huntington Street as part of the street closure scope of work in accordance with this Section. The Contractor shall follow all requirements set forth in the Rules of the City of New York, Title 34, Chapter 2: "Highway Rules," and Section 3 of the NYC DOT Street Works Manual. The Contractor shall obtain the

following Street Opening<sup>1</sup> and Building Operations/Construction Activity permits for Non-Emergency Work:

- Permit 0132P – Install Fence;
- Permit 0201 – Place Material on Street;
- Permit 0204 – Place Equipment other than Crane or Shovel on Street;
- Permit 0211 – Occupancy of Roadway as Stipulated; and
- Permit 0215 – Occupancy of Sidewalk as Stipulated.

The scope of work for obtaining permits related to the closure of Huntington Street is summarized below.

1. **Register with NYC DOT.** The Contractor must have a current and valid Permittee ID number issued by NYC DOT. To obtain a Permittee ID number, the Contractor should submit a completed Permittee Registration Application and all supporting documentation in person to the NYC DOT central Permit Office located at 55 Water Street, New York, New York 10041. Review of the application typically takes between two (2) and seven (7) days. The application can be found on the NYC DOT Street Works Manual website at <http://streetworksmannual.nyc/chapter-three/required-documentation-permittee-application>.
2. **Complete Building Operations/Construction Activity Permit Applications.** The Contractor may submit permit applications online using NYCStreets (<https://www.nycstreets.net/public/signin/index>) or in person using the Application for Roadway/Sidewalk Permit(s), <http://www.nyc.gov/html/dot/downloads/pdf/permap.pdf>.
3. **Complete a Request for Full Roadway Closure.** The Contractor shall submit an Application for Full Roadway Closure found in Appendix B of the Street Works Manual, [http://www.nyc.gov/html/dot/downloads/pdf/dot\\_full\\_roadway\\_closure\\_procedures.pdf](http://www.nyc.gov/html/dot/downloads/pdf/dot_full_roadway_closure_procedures.pdf).
4. **Permit Renewal.** If necessary for completion of the Work, the Contractor shall apply for a permit renewal at the request of the Owner's Representative at least 30 days prior to the permit expiration date. The Application to Re-Issue Permits found in Appendix B of the Street Works Manual shall be completed online or submitted

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<sup>1</sup> Permit 0132P is a Street Opening permit for Protected Streets. A Protected Street is a street segment that has been resurfaced or reconstructed within the last five years. The segment of Huntington Street between the Gowanus Canal and Smith Street was listed as a Protected Street on July 25, 2014 and will be protected until July 25, 2019.

in-person. A copy of the original permit must be attached to the application for renewal.

5. **Other Provisions Pertaining to Permits.** The Contractor should be aware of the types of holds that may be placed on Roadway/Sidewalk Permits. Of note, a Full Closure Review hold will be automatically placed on the 90<sup>th</sup> consecutive calendar day of any full street closure. The Office of Construction Mitigation and Coordination will review the project to determine if a Community Reassessment Impact and Amelioration (CRIA) statement must be submitted to NYC DOT. Preparation of a CRIA statement is not included in this scope of work.
6. **Executing work in the Street.** The Contractor shall follow all General Requirements for Roadway/Sidewalk work outlined in Section 4.1 of the Street Works Manual. This includes work site safety, signage, and applicable restoration.
  - a. The Contractor shall keep a copy of all Permits at the Site at all times and shall make permits available for inspection upon request of any authorized person as described in the NYC Rules.
  - b. Permittees will be required to post Project Informational Signs in conformance with the NYC Rules for any project with a projected completion time of three months or more, or as otherwise directed by the Commissioner. Signs shall be kept in readable, good condition.
7. At the end of the project, the Contractor shall restore Huntington Street to its original condition.

[END OF SECTION]